

Heller Ehnman LLP  
Attorney Docket No. 40923-0067 US5

U.S. Ser al No. 10/713,268  
GOVINDAN

### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1 - 10. (Canceled)

11. (Previously presented) A method for producing a carbohydrate-appended peptide useful for radioiodinating an antibody, comprising:

conjugating a radioiodinatable peptide to a carbohydrate to form a carbohydrate-appended peptide;

wherein said radioiodinatable peptide comprises at least one D-tyrosine, an amino terminus, a carboxy terminus formed from a D-lysine and no contiguous L-amino acids between the D-tyrosine and the carboxy terminus,

wherein the carbohydrate-appended peptide comprises

(a) a peptide that comprises at least one D-tyrosine, an amino terminus, a carboxy terminus formed from a D-lysine and no contiguous L-amino acids between the D-tyrosine and the carboxy terminus;

(b) a reducing carbohydrate conjugated to the peptide via an  $\epsilon$ -amino group of the D-lysine to form a carbohydrate-appended peptide; and

(c) a linker group for covalently binding said carbohydrate-appended peptide to an antibody.

12. (Original) A method according to claim 11, further comprising covalently reacting radioiodine with said at least one D-tyrosine to form a radioiodinated carbohydrate-appended peptide.

13. (Original) A method according to claim 11, wherein said carbohydrate is conjugated to said radioiodinatable peptide at an  $\epsilon$ -amino group of said D-lysine by reductive amination.

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14. (Withdrawn) A method according to claim 11, wherein said peptide contains 5-40 amino acids.

15. (Withdrawn) A method according to claim 12, wherein said peptide contains 5-40 amino acids.

16. (Original) A method according to claim 11, wherein said D-tyrosine is directly linked to said D-lysine.

17. (Original) A method according to claim 11, wherein said carbohydrate is selected from the group consisting of melibiose and lactose.

18. (Original) A method according to claim 12, wherein said carbohydrate is selected from the group consisting of melibiose and lactose.

19. (Original) A method according to claim 11, wherein said carbohydrate is melibiose.

20. (Original) A method according to claim 12, wherein said carbohydrate is melibiose.

21-22. (Canceled)

23. (Currently amended) A method for producing a carbohydrate-appended peptide useful for radioiodinating an antibody, comprising:

conjugating a radioiodinatable peptide to a carbohydrate to form a carbohydrate-appended peptide;

wherein said radioiodinatable peptide comprises at least one D-tyrosine, an amino terminus, a carboxy terminus formed from a D-lysine, D-arginine or D-ornithine and no contiguous L-amino acids between the D-tyrosine and the carboxy terminus,

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wherein the carbohydrate-appended peptide comprises

(a) a peptide that comprises at least one D-tyrosine, an amino terminus, a a carboxy terminus, and no contiguous L-amino acids between the D-tyrosine and the carboxy terminus and wherein the carboxy terminus is a D-lysine, D-arginine or ~~D-ornithine~~ D-ornithine;

(b) a reducing carbohydrate conjugated to the peptide via the  $\epsilon$ -amino group of the D-lysine or the side chain of D-arginine or D-ornithine to form a carbohydrate-appended peptide; and

(c) a linker group for covalently binding said carbohydrate-appended peptide to an antibody.

24. (Previously presented) A method according to claim 23, further comprising covalently reacting radiiodoine with said at least one D-tyrosine to form a radioiodinated carbohydrate-appended peptide.

25. (Currently amended) A method according to claim ~~44~~ 23, wherein said carbohydrate is conjugated to said radioiodinatable peptide at an  $\epsilon$ -amino group of said D-lysine or the side chain of D-arginine or D-ornithine by reductive amination.

26. (Withdrawn) A method according to claim 23, wherein said peptide contains 5-40 amino acids.

27. (Withdrawn) A method according to claim 24, wherein said peptide contains 5-40 amino acids.

28. (Currently amended) A method according to claim 23, wherein said D-tyrosine is directly linked to said D-lysine, D-arginine or ~~D-ornithine~~ D-ornithine.

29. (Previously presented) A method according to claim 23, wherein said carbohydrate is selected from the group consisting of melibiose and lactose.

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30. (Previously presented) A method according to claim 24, wherein said carbohydrate is selected from the group consisting of melibiose and lactose.

31. (Previously presented) A method according to claim 23, wherein said carbohydrate is melibiose.

32. (Previously presented) A method according to claim 24, wherein said carbohydrate is melibiose.